

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11375

Received at London Office

14 SEP 1936

Date of writing Report 9/9/36 When handed in at Local Office 11/9/36 Port of TRIESTE

No. in Survey held at Amsterdam & Moulouane Date, First Survey July 23 Last Survey Sep 2 1936

84182 on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel Solarium

Tons { Gross 6239 Net 3651

Built at Moulouane By whom built Cantieri Riuniti di Lodi Yard No. 1136 When built 1936

Owners Anglo Saxon Petroleum Co Port belonging to London

Oil Engines made at Amsterdam By whom made Kromhout Eng. Contract No. 7606 When made 1936

Generators made at Moulouane By whom made Officine Elettriche Contract No. 103637 When made 1936

No. of Sets 2 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 12 Total Capacity of Generators 16 Kilowatts.

Oil ENGINES, &c. Type of Engines Kromhout Diesel HS 2 2 or 4 stroke cycle 2 Single or double acting ^{single} ~~double~~

Maximum pressure in cylinders 40 at. Diameter of cylinders 210 mm Length of stroke 270 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm Is there a bearing between each crank -

Revolutions per minute 390 Flywheel dia. 1100 mm Weight 1180 kg Means of ignition ^{compressor} ~~spark~~ Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule ^{app.} ~~110~~ Crank pin dia. 110 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis -

Flywheel Shaft, diameter as per Rule ^{app.} ~~70~~ Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners no liners

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged with water cooled

Cooling Water Pumps, No. one a 1440 lit/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size one a 840 lit/h.

Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. crankcase scavenging Diameter - Stroke - Driven by -

AIR RECEIVERS: - Is each receiver, which can be isolated, fitted with a safety valve as per Rule -

Can the internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -

Is there a drain arrangement fitted at the lowest part of each receiver -

High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Starting Air Receivers, No. one Total cubic capacity 75 lit. Internal diameter 250 mm thickness 7 mm

Seamless, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 44-50 Working pressure by Rules 2.5 atm

ELECTRIC GENERATORS: Type Compound. Grip proof

Pressure of supply 110 volts. Load 145 Amp Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second -

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

Generators, do they comply with the requirements regarding rating yes are they compound wound yes

are they over compounded 5 per cent. yes, if not compound wound state distance between each generator -

is an adjustable regulating resistance fitted in series with each shunt field yes Are all terminals accessible, clearly marked, and furnished with sockets yes

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

PLANS. Are approved plans forwarded herewith for Shafting 21.6.35 Receivers 21.6.35 Separate Tanks -

SPARE GEAR as per Rule

The foregoing is a correct description.

Manufacturer.



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Lloyd's Register

Foundation

005512-005517-0042

Dates of Survey while building { During progress of work in shops - - } *See Amsterdam Report 13633*
 { During erection on board vessel - - - } *July 23. Aug 19. 27. 31. Sep 2.*
 Total No. of visits *5*

Dates of Examination of principal parts—Cylinders *11.9.35 19.9.35* Covers *27.3.35 31.10.35* Pistons *11.9.35 31.10.35* Piston rods —
 Connecting rods *20.9.35 30.9.35* Crank and Flywheel shaft *16.9.35 31.10.35* Intermediate shaft —

Crank and Flywheel shafts, Material *Steel* Identification Mark *No 2163 KK 6.1.36*

Intermediate shafts, Material *Steel* Identification Marks *No 498 M.J. KK 30.9.35*

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Tanker Anglo Paxon*

General Remarks (State quality of workmanship, opinions as to class, &c.)

This I.C. engine has been constructed under special licence at Amsterdam and satisfactory fitted on board of Monfalcone. It has been tested with the electric generator at full load and found satisfactory. The duplicate generator No 103636 has been coupled to a steam engine and satisfactorily tested on board.

The amount of Fee ... *Lire 231-* When applied for, *8/9/36*
 Travelling Expenses (if any) : When received, *12.10.36* *13/10*

P. Puzos
 Surveyor to Lloyd's Register of Shipping

Committee's Minute *FRI. 18 SEP 1936*

Assigned *see Tri. 11375*

Im. 9.28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

